

WEST

L1: Entry 1 of 2

File: JPAB

Jul 26, 1985

PUB-NO: JP360141648A
DOCUMENT-IDENTIFIER: JP 60141648 A
TITLE: ANTIFOGGING GLASS

PUBN-DATE: July 26, 1985

INVENTOR-INFORMATION:

NAME	COUNTRY
FUKUMOTO, SAKAE	

ASSIGNEE-INFORMATION:

NAME	COUNTRY
NIPPON SODA CO LTD	

APPL-NO: JP58245769

APPL-DATE: December 29, 1983

US-CL-CURRENT: 428/432; 428/687

INT-CL (IPC): C03C 17/23; H01B 5/14

ABSTRACT:

PURPOSE: To obtain the titled antifogging glass which can be heated with the small consumption of electricity by providing a transparent electroconductive film layer on the surface of the glass.

CONSTITUTION: A transparent electroconductive film layer consisting of an In₂O₃ film layer doped with Sn, Sb, etc. or an Sn₂O₃ film layer doped with Sb is coated on the surface of the glass which is disirably heated, then an electrode reaching the electroconductive film layer is provided, and a lead wire is drawn out from the electrode. Since the surface of the glass can be rapidly heated in this way, the condensation of steam on the surface of the glass is prevented, and the fogging of the glass can be eliminated.

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L1: Entry 2 of 2

File: DWPI

Jul 26, 1985

DERWENT-ACC-NO: 1985-220362

DERWENT-WEEK: 198536

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TITLE: Glass which is free from misting up - has transparent coating of electroconductive material e.g. doped indium oxide

PATENT-ASSIGNEE:

ASSIGNEE	CODE
NIPPON SODA CO	NIPS

PRIORITY-DATA: 1983JP-0245769 (December 29, 1983)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
JP <u>60141648</u> A	July 26, 1985		002	

APPLICATION-DATA:

PUB-NO	APPL-DATE	APPL-NO	DESCRIPTOR
JP60141648A	December 29, 1983	1983JP-0245769	

INT-CL (IPC): C03C 17/23; H01B 5/14

ABSTRACTED-PUB-NO: JP60141648A

BASIC-ABSTRACT:

The transparent electro-conductive film layer is e.g. Sn- or Sb-doped In₂O₃ film layer or Sb-doped SnO₂ film layer.

USE - Glass, the surface of which is able to be rapidly heated by application of electric current to prevent condensation of steam on the surface. Suitable for use as windscreen of a vehicle or mirror in bath room, etc.

In an example, acetyl-acetone soln. of acetylacetone In and diisopropoxy Sn is applied on a soda glass (100 mm x 200 mm x 2 mm) heated at 480 deg. C by means of ultrasonic atomising appts. to form a transparent thin Sn-doped In₂O₃ film having thickness of 700 angstroms. The soda glass thus treated is then dipped in organic solvent soln. of tetraisopropoxy silane, and baked at 500 deg. C to form a thin SiO₂ coatings having thickness of 2,000 angstroms. After providing electrodes on the electroconductive film, electric potential

of 15 volts is applied so that the surface of the SiO₂ coatings is heated up to 40 deg. C for 5 mins.

CHOSEN-DRAWING: Dwg.0/0

TITLE-TERMS: GLASS FREE MIST UP TRANSPARENT COATING ELECTROCONDUCTING MATERIAL DOPE INDIUM OXIDE

DERWENT-CLASS: L01 L03 X12 X22 X25

CPI-CODES: L01-G04; L01-H02; L01-L02; L03-A02;

EPI-CODES: X12-D02A; X22-J02; X25-B01C1;

UNLINKED-DERWENT-REGISTRY-NUMBERS: 1515U; 1531U ; 1694P

SECONDARY-ACC-NO:

CPI Secondary Accession Numbers: C1985-096023

Non-CPI Secondary Accession Numbers: N1985-165335